

MAY 17 2004

Substitute PTO/SB/08A (08-03)
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE.**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

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of

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Complete if Known

Application Number	10/804,968
Filing Date	March 18, 2004
First Named Inventor	ENKE
Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	34113/AJT (474430-1)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	4,818,862	04/04/1989	Conzemius	
	A2	5,015,848	05/14/1991	Bornse et al.	
	A3	5,464,985	11/07/1995	Cornish et al.	
	A4	5,576,540	11/19/1996	Jolliffe	
	A5	6,011,259	01/04/2000	Whitehouse et al.	
	A6	US 6,504,148 B1	01/07/2003	Hager	
	A7	US 6,507,019 B2	01/14/2003	Chernushevish et al	
	A8	US 2003/0197121 A1	10/23/2003	Turecek et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ² Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
	C1	Igor V. CHERNUSHEVICH, Werner ENS, Kenneth G. STANDING, "Orthogonal", Analytical Chemistry News & Features, July 1, 1999, pp. 452-461	
	C2	R.J. CONZEMIUS, H.J. SVEC, "A New Concept for Characterizing Peptides and Proteins Using a Modified Mass Spectrometric Approach", International Journal of Mass Spectrometry and Ion Processes, 103 (1990), pp. 57-66.	
	C3	Robert J. COTTER, "The New Time-of-Flight Mass Spectrometry", Analytical Chemistry News & Features, July 1, 1999, pp. 445-451.	
	C4	Ziqiang GUAN, Neil L. KELLEHER, Peter B. O'CONNOR, David J. AASERUD, Daniel P. LITTLE, Fred W. MCLAFFERTY, "193 nm Photodissociation of Larger Multiply-Charged Biomolecules", International Journal of Mass Spectrometry and Ion Processes 157/158 (1996), pp. 357-364.	
	C5	Fred W. MCLAFFERTY, "Tandem Mass Spectrometry", 6 pages.	
	C6	W. J. VAN DER HART, "Studies of Ion Structures by Photodissociation", International Journal of Mass Spectrometry and Ion Processes", 118/119 (1992), pp. 617-633.	
	C7	C.W. VAN FONG, "Phase Space Dynamics in a Linear RFQ Trap for Time-of-Flight Mass Spectrometry", Department of Physics, McGill University, Montreal, Canada, 161 pages.	
	C8	James H. BARNES IV, Gary M. HIEFTJE, M. Bonner DENTON, Roger SPERLINE, David W. KOPPENAAL, Charles BARINAGA, "A Mass Spectrometry Detector Array That Provides Truly Simultaneous Detection", American Laboratory, October 2003, pp. 15-22.	
	C9	V.D. BERKOUT, R.J. COTTER, D.P. SEGERS, "Miniaturized EI/Q/oa TOF Mass Spectrometer", J Am Soc Mass Spectrom 2001, 12, pp. 641-647.	

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Substitute for form 1449A/P (Modified)			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/804,968	
			Filing Date	March 18, 2004	
			First Named Inventor	ENKE	
			Art Unit	To be assigned 2887	
			Examiner Name	To be assigned	
Sheet	2	of	2	Attorney Docket Number	34113/AJT (474430-1)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cita No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	*
	C10	Vladimir M. DOROSHENKO, Robert J. COTTER, "Ideal Velocity Focusing in a Reflectron Time-of-Flight Mass Spectrometer", J Am Soc Mass Spectrom 1999, 10, pp. 992-999.	
	C11	Mary E. GIMON-KINSEL, Gary R. KINSEL, Ricky D. EDMONDSON, David H. RUSSELL, "Photodissociation of High Molecular Weight Peptides and Proteins in a Two-Stage Linear Time-Of-Flight Mass Spectrometer", J Am Soc Mass Spectrom 1995, 6, pp. 578-587.	
	C12	Slava V. KOVTOUN, Robert J. COTTER, "Mass-Related Pulsed Extraction: Theoretical Analysis and Implementation with a Linear Matrix-Assisted Laser Desorption/Ionization Time of Flight Mass Spectrometer", J Am Soc Mass Spectrom 2000, 11, pp. 841-853.	
	C13	Daniel P. LITTLE, J. Paul SPEIR, Michael W. SENKO, Peter B. O'CONNOR, Fred W. MCLAFFERTY, "Infrared Multiphoton Dissociation of Large Multiply Charged Ions for Biomolecule Sequencing", Anal. Chem. 1994, 66, pp. 2809-2815.	
	C14	Anne H. PAYNE, Gary L. GLISH, "Thermally Assisted Infrared Multiphoton Photodissociation in a Quadrupole Ion Trap", Anal. Chem. 2001, 73, pp. 3542-3548.	
	C15	William D. PRICE, Paul D. SCHNIER, and Evan R. WILLIAMS, "Tandem Mass Spectrometry of Large Biomolecule Ions by Blackbody Infrared Radiative Dissociation", Anal. Chem. 1996, 68, pp. 859-866.	
	C16	Silianos G. ROUSSIS, "Automated Tandem Mass Spectrometry by Orthogonal Acceleration TOF Data Acquisition and Simultaneous Magnet Scanning for the Characterization of Petroleum Mixtures", Anal. Chem. 2001, 73, pp. 3611-3623.	
	C17	James L. STEPHENSON, Jr., Matthew M. BOOTH, Joseph A. SHALOSKY, John R. EYLER, Richard A. YOST, "Infrared Multiple Photon Dissociation in the Quadrupole Ion Trap Via a Multipass Optical Arrangement", J Am Soc Mass Spectrom 1994, 5, pp. 888-893.	

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